Claims

1. A printing machine, especially a rotary offset printing machine, with a counter-pressure cylinder (2) and at least one printing group (S, S') or the like, which is disposed between a feed system (3) and a delivery system (4) in the direction of rotation (D) thereof, wherein the plate and/or rubber blanket cylinders (5, 6) of the printing group (S, S') and/or perfecting printing group are constructed as a cassette-shaped modular unit (C, C'), which can be shifted from a use position axially into a servicing position.

2. The printing machine of claim 1, wherein the cassette units (C, C') alternatively can be shifted in either direction of the axis of rotation (A) of the counter-pressure cylinder (2) into the servicing position.

3. The printing machine of claims 1 or 2, wherein the cassette unit (C, C'), after its rubber blanket cylinder (6), which always are in contact with the counter-pressure cylinder (2) in the printing position at, can be shifted axially into the servicing position.

4. The printing machine of one of the claims 1 to 3, wherein the cassette unit (C, C') in the servicing position is located completely next to the counter-pressure cylinder (2).

Sub. AS Conducted

5. The printing machine of one of the claims 1 to 4, wherein the cassette units (C, C') are supported in their servicing position in a dust-free environment.

6. The printing machine of one of the claims 1 to 5, wherein said machine is constructed as a satellite printing machine, and the satellite printing groups (S, S') in the area of their plate and/or rubber blanket cylinders (5, 6) form the cassette-shaped modular units (C, C'), which can be shifted axially into the servicing position.

Cont Sub B1

7. The printing machine of claim 6, wherein the satellite printing machine has one or more perfecting printing groups (W) as a cassette-shaped modular unit or units, which can be shifted jointly with their inking and damping groups axially into the servicing position.

Sub. A4

8. The printing machine of claims 6 or 7, wherein more than four satellite printing groups (S, S') are provided.

9. The printing machine of one of the claims 1 to 5, wherein said machine is constructed as a three-cylinder printing machine, the plate cylinder and/or rubber blanket cylinder of which can be shifted individually or jointly as cassette units axially into the servicing position.

Sub A4 Cont.

10. The printing machine of one of the claims 1 to 5, wherein said machine is constructed as a cylinder printing machine, having more than three cylinders, the plate cylinder and/or rubber blanket cylinder of which can be moved, individually or jointly as corresponding cassette units, axially into a servicing position.

11. The printing machine of one of the claims 1 to 6, wherein the cassette units (C, C') of the printing groups (S') are supported on rails (9, 10) of the corresponding side frames (11, 12) of the printing groups (S) and can be shifted on said rails (9, 10) or together therewith in guides (13, 14) of the side frames (11, 12) parallel and free from backlash.

12. The printing machine of one of the claims 1 to 11, wherein a plate cylinder (5) of the cassette units (C, C') is seated in a cassette housing, so that it can be adjusted axially in the peripheral direction and obliquely, and adjusting means (21) are provided for make adjustments even while the printing machine is running.

13. The printing machine of one of the claims 1 to 8, wherein the plate and rubber blanket cylinders (5, 6) of the printing groups (S, S') are adjustably supported by drive means (20) within the cassette housing, individually by themselves and/or jointly, against the counter-pressure cylinder (2).

Sub. A4 Conclud

14. The printing machine of one of the claims 1 to 13, wherein the cassette units (C, C') have at least one servo drive (40, 43) which is provided for driving the plate cylinder and/or rubber blanket cylinder and/or counter-pressure cylinder.

15. The printing machine of claim 14, wherein additional drive functions can be performed with the servo drive (40, 43), which is provided for the axial displacement.

Sub. B5

16. The printing machine of one of the claims 1 to 15, wherein additional units, such as illustrating devices and cleaning devices or the like (41) are provided within the range of displacement of the cassette units (C, C').

17. The printing machine of one of the claims 1 to 16, wherein the cassette unit is formed by only one plate cylinder 5, the rotation of which (arrow L) is effected by the servo drive (43) during an illustrating process.

18. The printing machine of one of the claims 1 to 17, wherein a supporting guide assembly (44) is provided within the range of displacement of the cassette units (C, C').

Sub AS Continued

19. The printing machine of one of the claims 13 to 18, wherein the gear wheel connections, which are provided within the area of the servo drive (40, 43) between the plate cylinder (5) and the rubber blanket cylinder (6), are so supported by a spring-mounted compensating cogging system, that the gear wheels intermesh without backlash during the pressure actuation and the pressure take-off.

20. The printing machine of one of the claims 1 to 19, wherein an additional unit, which is constructed as a displaceable cassette unit for processing the printing stock further, is provided at the printing machine in close proximity to the delivery system (4).